

Serial No. 09/902,890

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**Section I:**  
**AMENDMENT UNDER 37 CFR §1.121 to the**  
**CLAIMS**

Claim 1 (currently amended):

A method of providing an extension to a default set of messaging resource functions in an enterprise application server, said application server having a default context factory class, said method comprising the steps of:

providing ~~[[a]]~~ an alternate extension messaging service provider on an application server node, said extension messaging service provider having a name, description, initial context factory, and a provider universal resource locator (URL), said application server node also having a default messaging service ;

creating one or more extension connection factories and destination resources;

binding references to said extension connection factories and destination resources into a namespace; ~~[[and]]~~

creating extension connection factory and destination resources in an application server administration domain; ~~and , such that application programs may subsequently access and use said extension messaging service provider, connection factory and destination resources by performing an indirect naming service lookup through the default context factory.~~

subsequently accessing and using by an application program said alternate extension messaging service provider, connection factory and destination resources through performance of an indirect naming service lookup through said application server default context factory.

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**Claim 2 (original):**

The method as set forth in Claim 1 wherein said step of providing a extension messaging service provider on an application server node includes the step of specifying a classpath on said application server node.

**Claim 3 (original):**

The method as set forth in Claim 2 wherein said step of specifying a classpath on an application server node includes specifying a location of the extension messaging service provider's jar file on said application server node.

**Claim 4 (original):**

The method as set forth in Claim 2 wherein said step of specifying a classpath on an application server node includes specifying a naming service binding mechanism class name.

**Claim 5 (original):**

The method as set forth in Claim 1 wherein said step of creating extension connection factory and destination resources in an application server administration domain includes specifying a name, description, and an external naming service name.

**Claim 6 (original):**

The method as set forth in Claim 5 wherein said step of specifying a name, description, and an external naming service name includes specifying a location where said extension connection factory and destination resources were bound into said namespace.

**Claim 7 (original):**

The method as set forth in Claim 1 wherein said step of providing an extension messaging service provider comprises providing a Java Messaging Service provider.

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## Claim 8 (currently amended):

A computer readable medium encoded with software for providing an extension to a default set of messaging resource functions in an enterprise application server computer system, said application server having a default context factory class, said software when executed by an application server to perform the following steps:

provide ~~[[a]]~~ an alternate extension messaging service provider on an application server node, said extension messaging service provider having a name, description, initial context factory, and a provider universal resource locator (URL), said application server node also having a default messaging service;

create one or more extension connection factories and destination resources;

bind references to said extension connection factories and destination resources into a namespace; ~~[[and]]~~

create extension connection factory and destination resources in an application server administration domain; ~~and, such that application programs may subsequently access and use said extension messaging service provider, connection factory and destination resources by performing an indirect naming service lookup through the default context factory.~~

subsequently access and use by an application program of said alternate extension messaging service provider, connection factory and destination resources through performance of an indirect naming service lookup through said application server default context factory.

## Claim 9 (original):

The computer readable medium as set forth in Claim 8 wherein said software for providing a extension messaging service provider on an application server node includes the software for specifying a classpath on said application server node.

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## Claim 10 (original):

The computer readable medium as set forth in Claim 9 wherein said software for specifying a classpath on an application server node includes software for specifying a location of the extension messaging service provider's jar file on said application server node.

## Claim 11 (original):

The computer readable medium as set forth in Claim 9 wherein said software for specifying a classpath on an application server node includes software for specifying a naming service binding mechanism class name.

## Claim 12 (original):

The computer readable medium as set forth in Claim 8 wherein said software for creating extension connection factory and destination resources in an application server administration domain includes software for specifying a name, description, and an external naming service name.

## Claim 13 (original):

The computer readable medium as set forth in Claim 12 wherein said software for specifying a name, description, and an external naming service name includes software for specifying a location where said extension connection factory and destination resources were bound into said namespace.

## Claim 14 (original):

The computer readable medium as set forth in Claim 8 wherein said software for providing an extension messaging service provider comprises software for providing a Java Messaging Service provider.

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## Claim 15 (currently amended):

A extension system for a default set of messaging resource functions in an enterprise application server, said application server having a default context factory class, said extension system comprising ~~the steps of:~~

[[a]] an alternate extension messaging service provider on an application server node, said extension messaging service provider having a name, description, initial context factory, and a provider universal resource locator (URL), said application server node also having a default messaging service;

one or more extension connection factories and destination resources;

bound references to said extension connection factories and destination resources in a namespace; [[and]]

extension connection factory and destination resources created in an application server administration domain, which allow application programs to access and use said extension messaging service provider, connection factory and destination resources by performing an indirect naming service lookup through the default context factory.

an application program interface for accessing and using by an application program said alternate extension messaging service provider, connection factory and destination resources through performance of an indirect naming service lookup through said application server default context factory.

## Claim 16 (original):

The extension system as set forth in Claim 15 wherein said extension messaging service provider includes a specification of a classpath on said application server node.

## Claim 17 (original):

The extension system as set forth in Claim 16 wherein said specification of a classpath on an application server node includes a location specification of the extension messaging service provider's jar file on said application server node.

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**Claim 18 (original):**

The extension system as set forth in Claim 16 wherein said specification of a classpath on an application server node includes a naming service binding mechanism class name specification.

**Claim 19 (original):**

The extension system as set forth in Claim 15 wherein said extension connection factory and destination resources includes a specification of a name, description, and an external naming service name.

**Claim 20 (original):**

The extension system as set forth in Claim 19 wherein said specification of a name, description, and an external naming service name includes a location specification where said extension connection factory and destination resources are bound into said namespace.

**Claim 21 (original):**

The extension system as set forth in Claim 15 wherein said extension messaging service provider comprises a Java Messaging Service provider.